



US 20140328502A1

(19) **United States**(12) **Patent Application Publication**  
**Virolainen et al.**(10) **Pub. No.: US 2014/0328502 A1**(43) **Pub. Date: Nov. 6, 2014**(54) **AUDIO APPARATUS**(71) Applicant: **NOKIA CORPORATION**, Espoo (FI)(72) Inventors: **Jussi Virolainen**, Espoo (FI); **Matti Hamalainen**, Lempäälä (FI); **Joonas Itaranta**, Helsinki (FI)(73) Assignee: **Nokia Corporation**, Espoo (FI)(21) Appl. No.: **13/875,419**(22) Filed: **May 2, 2013****Publication Classification**(51) **Int. Cl.**  
**H04R 3/00** (2006.01)(52) **U.S. Cl.**CPC ..... **H04R 3/00** (2013.01)USPC ..... **381/119**(57) **ABSTRACT**

An apparatus including an input configured to receive at least one first audio signal from a first apparatus; an input configured to receive at least one second audio signal from a second apparatus; a distance detector configured to determine a distance between the first and the second apparatus; and a level control generator configured to generate a level control for mixing the at least one first audio signal and the at least one second audio signal based on the distance between the first and the second apparatus.

